

Applicants hereby submit a version with markings to show changes made:

- 1) (Amended) A process for testing genomic DNA to determine if [at least one] a targeted base is present, comprising:
  - a) making a solution comprising the genomic DNA;
  - b) [adding a primer that hybridizes to a targeted sequence of the genomic DNA wherein the primer 3' nucleotide will hybridize and extend along the genomic DNA if the targeted base is present] adding a primer directed to the targeted base wherein the primer 3' nucleotide will hybridize to the targeted base if the targeted base is present favoring primer extension or the primer 3' nucleotide will not hybridize because the targeted base is not present thereby inhibiting primer extension;
  - c) mixing a DNA polymerase into the solution;
  - d) amplifying the targeted sequence of the genomic DNA if the targeted base is present;
  - e) capturing the amplified sequence to a solid support wherein the solid support contains probes that hybridize to [amplified product having the base] amplified sequence between the primers; and,
  - f) detecting amplified [targeted] sequence if the targeted base is present.
- 3) (Amended) The process of claim [2] 1 further comprising denaturing amplified polynucleotide strands to form single-stranded polynucleotides.
- 7) (Amended) The process of claim [6] 5 wherein the solid support comprises a microtiter plate.
13. (Amended) A process for detecting a targeted base in a [targeted] sequence of genomic DNA, comprising:
  - a. obtaining the genomic DNA;
  - b. mixing the genomic DNA with a primer that hybridizes to the [targeted] sequence of the genomic DNA wherein the primer 3' nucleotide hybridizes to the [genomic DNA] targeted base if the targeted base is present;
  - c. amplifying the [targeted] sequence of the genomic DNA containing the targeted base if the targeted base is present;
  - d. capturing amplified polynucleotide strands to a solid support wherein the solid support contains probes that hybridize to amplified sequence between the primers[product having the base]; and,
  - e. detecting amplified targeted sequence if the base is present.